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EUROPEAN PATENT APPLICATION

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(52) Odorant-binding protein from rat

(57) DNA molecules are taught which code for an odorant-binding protein which is synthesized solely in the lateral nasal gland. This protein, because of its broad range of odorants which it binds, can be used in many techniques for trapping odorants in either a liquid or solid medium. This protein bears some structural homology with other carriers of small lipophilic molecules from many other species; the carriers are known to transport specific lipophilic molecules.

DOCUMENTS CONSIDERED TO BE RELEVANT					
Category	Classification of document with indication, where appropriate,	Relevant application	to claim	of relevant passages	APPLICATON (Art. Cl.4)
X	SOC. NEURSCI., Vol. 13, no. 1, 1987, page 362, abstract no. 102.10; J. PEVSENR et al.: "Odonrant-binding protein: DNA cloning and homology to rat alpha-microglobulin"	1-7	C 12 N 15/00 C 07 K 13/00 C 12 P 21/02 C 11 B 9/00	* Whole abstract * * Whole article *	SCIENCE, Vol. 241, July 1988, pages 336-339; J. PEVSENR et al.: "Molecular cloning of odorant-binding protein: member of a ligand carrier family"
P,X	SOC. NEURSCI., Vol. 13, no. 1, 1987, page 362, abstract no. 102.10; J. PEVSENR et al.: "Odonrant-binding protein: DNA cloning and homology to rat alpha-microglobulin"	1-7	C 12 N 15/00 C 07 K 13/00 C 12 P 21/02 C 11 B 9/00	* Whole abstract * * Whole article *	SCIENCE, Vol. 241, July 1988, pages 336-339; J. PEVSENR et al.: "Molecular cloning of odorant-binding protein: member of a ligand carrier family"
TECHNICAL FIELDS SEARCHED (Art. Cl.4)					
	C 12 N C 07 K C 12 P				
THE HAGUE					
		05-06-1990	LE CORNEC N.D.R.	Place of search	Date of completion of the search
CATEGORY OF CITED DOCUMENTS					
X : party or principle underlying the invention Y : party or principle referred to alone Z : party or principle referred to combined with another E : earlier the filing date D : document cited in the application L : document cited for other reasons A : member of the same family, corresponding B : non-written disclosure C : technical background document P : intermediate documents					

DOCUMENTS CONSIDERED TO BE RELEVANT

EP 89 30 3038



namely claims: 1-7

None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims.

Only part of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims.

All further search fees have been paid within the fixed time limit. The present European search report has respect of which search fees have been paid.

Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid.

namely claims:

All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

5. Claim 19: Method of screening odourants using OBP.
4. Claim 18: Method of solubilizing lipophilic odourants in aqueous media using OBP.
3. Claim 17: Method of reducing the rate of volatilization of odourants using OBP.
2. Claims 8-16: Method of concentrating odourants using OBP.
1. Claims 1-7: Method of producing OBP by recombinant means and DNA coding therefor.

namely:

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions.

LACK OF UNITY OF INVENTION

drawn up for the first ten claims.

No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

namely claims:

Only part of the claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid.

All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.

The present European patent application comprised at the time of filing more than ten claims.

CLAIMS INCURRING FEES

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